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continued his field work on the ancient crystalline rocks of Berkshire county, Mass. Professor Smyth made a brief visit to the Lake Superior district, and then went to Colorado, where he made an extended reconnaissance of the mining camps on the Yukon and at Cape Nome. Professor Jackson and Mr. Cushman spent some time collecting fossils in the Helderbergs and Catskills of eastern New York. Professor Woodworth continued his work for the N. Y. State Geological Survey on the glacial geology of the Hudson and Champlain valleys and around the northern side of the Adirondacks. Professor Palache was engaged on office work following field studies of a year ago on the geology of Bradshaw mountains, Arizona, for the U. S. Geological Survey. Dr. Jaggar went to Martinique and St. Vincent in May on the U. S. relief ship, *Dixie*, and remained in the West Indies until the end of July. Mr. Raymer conducted a summer course for students in mining, making practical study of mines and works in and about Denver, Silverton, Telluride, Leadville and Salt Lake City. Mr. White led a party of geological and mining students through southern Colorado, visiting La Plata mountains, Animas Canyon and the San Juan district; after the party disbanded, Mr. White examined various mining and reduction plants in Colorado and Utah.

AN Intercollegiate Geological Excursion, similar to the one a year ago at Westfield, Mass., in which six colleges and as many preparatory secondary schools were represented by forty-six participants, is proposed for Saturday, November 1, under the leadership of Professor B. K. Emerson, of Amherst College. The party will gather on Friday evening at the Cooley House, Springfield, Mass. On Saturday morning the 8:30 train will be taken to Holyoke, and the day will be spent on the Mount Tom trap range, returning to Holyoke in time for evening trains in all directions. The chief features to be seen are the structure of the Triassic trap sheets and sandstones; contacts of the trap with the underlying and overlying sandstones; fossil footprints in the sandstones, glacial deposits and terraces along the Connecticut river. Teach-

ers and students of geology who desire to join the excursion are requested to communicate with Professor Emerson not later than October 26.

DR. F. L. RANSOME has just completed a comprehensive report on the geology and ore deposits of the Globe copper district, Arizona, for the United States Geological Survey. The region is dissected by a remarkable network of faults, of various geologic ages, and the occurrence of the ores is related to some of the older of these fissures. The copper ores hitherto mined in the district have been oxidized and are consequently free from sulphur, but the exploitation of the deeper sulphide ores is yet in its infancy. The district has produced in the neighborhood of 120,000,000 pounds of copper. The greater part of this output has come from the Old Dominion mine, which has for years been working large bodies of oxidized ore found in limestone occurring by the side of a strong fault. During the present season Dr. Ransome is to continue the investigation of the copper deposits of Arizona by undertaking a detailed geologic study of the Bisbee district, in which is the well-known Copper Queen mine.

#### UNIVERSITY AND EDUCATIONAL NEWS.

THERE will be erected this year for Wesleyan University a physical laboratory, given by the alumni. It is expected that this and a new college hall will be ready for dedication in July, 1903, when the college will celebrate the tercentenary of the birth of John Wesley. It is also announced that a new astronomical observatory will be erected at a cost of \$40,000, the money having been provided by a brother of Professor J. M. Van Vleck, professor of mathematics and astronomy and vice-president of the University.

At the recent meeting of the board of trustees of Columbia University it was announced that \$7,500 had been given by citizens of New York to support the chair of social and political ethics, to which Dr. Felix Adler has been called. \$10,000 has been given anonymously for the purchase of books for the library and \$1,300 has been given by Mr. J. H. Hyde and Mr. F. R. Coudert, Jr., for two scholarships

for students studying in France, the arrangements for which we have already announced.

PRESIDENT HARPER has announced that plans are being made for a school of technology as part of the University of Chicago.

THE HON. CARROLL D. WRIGHT, U. S. Commissioner of Labor, was installed as president of the new collegiate department of Clark University on October 9. Addresses were made by Senators Hoar and Lodge and by Dr. Hall, president of the University. President Wright made an address on the relations between college training and citizenship after having outlined the purposes of the new college, which, he said, opened auspiciously with an entering class of seventy-nine students. It is expected that President Wright will take up his residence in Worcester in about two years.

THE inauguration of Dr. Frank Strong, formerly of the University of Oregon, as chancellor of the University of Kansas, will take place on Friday, October 17. On the Thursday afternoon preceding there will be a meeting of the Kansas City Section of the American Chemical Society at Lawrence, with the reading of papers, and in the evening Dr. Harvey W. Wiley, of Washington, D. C., will deliver the address of dedication of the chemistry building, his subject being 'The Rôle of Chemistry in University Education.' At the inauguration exercises President Arthur Hadley, of Yale, Chancellor Strong, Governor Stanley, Regent Scott Hopkins, President Murlin, of Baker University, Principal Whittemore, of Topeka, Professor W. H. Carruth, A. C. Scott and others will participate. In the evening it is proposed to have an inauguration luncheon in the new natural history museum, which is nearly completed, with after-dinner speeches by numerous college presidents and educators.

THE REV. DR. G. M. WARD has resigned the presidency of Rollins College, Winter Park, Florida.

DR. D. W. HERING, professor of physics in New York University, has been elected dean of the graduate school.

DR. JOHN H. HAMMOND, recently appointed professor of mining at Yale University, will not reside at New Haven.

At Yale University, Dr. Milton B. Porter has been promoted to an assistant professorship in mathematics, and Dr. William R. Coe to an assistant professorship in anatomy.

W. G. CADY, Ph.D. (Berlin), now in the Coast and Geodetic Survey, has been appointed to an associate professorship of physics at Wesleyan University, vacant by the resignation of Professor E. B. Rosa, to accept a position in the Bureau of Standards.

At the State School of Mines, Golden, Colo., Mr. C. W. L. Filkins, of the engineer's staff of Cornell University, has been appointed professor of civil and mining engineering. Mr. H. C. Berry has been appointed instructor in algebra and field surveying, and Mr. E. W. Gebhardt has been appointed instructor in trigonometry and analytical and descriptive geometry. Professor W. C. King, of the Montana School of Mines, has been appointed professor of a new chair, metallurgy and mining. Professor King will not begin his work until about the middle of the year.

IN the University of Michigan Dr. M. Gomberg has been advanced to the rank of junior professor of organic chemistry.

DR. HAROLD PENDER, Ph.D. (Johns Hopkins, 1901), has been appointed instructor in physics in Syracuse University. In the same department, Dr. Frederick A. Saunders, Ph.D. (Johns Hopkins, 1899), formerly instructor, has been made associate professor.

MR. WILLIAM A. HAMILTON, of Chicago University, has been appointed to the instructorship in astronomy and mathematics at Beloit College, left vacant by the resignation of Professor George Bacon, who has been called to the chair of physics in Worcester University.

THE chair of hygiene at McGill University, vacant by the death of Dr. Wyatt Johnston, has been offered to Dr. E. A. Hankin, bacteriologist to the government of India, but has been declined by him.

DR. JOHANNES ORTH, professor of pathological anatomy at the University of Göttingen, succeeds the late Professor Virchow in the chair of pathological anatomy at the University of Berlin.